

United States Mint, Philadelphia, Penn.,

ASSAY DEPARTMENT,

October 17th, 1879.

Hon London Snowden
Superintendent of
Mint;

Some months since
Dr. L. L. L. called my
attention to a description
in "Nature" of a new
"Electrical Induction Balance"
described by Prof. Hughes,
the inventor of the microphone.
Since then more detailed
statements have appeared
in the scientific periodicals

and I am led to believe
that it may be possible
to apply the principle
involved in this discovery
to a part of the Mint
work with a fair infer-
-ence of producing useful
practical results.

The instrument has
already been experimented
with in the British Mint
and some tentative and
promising trials have
been published by Mr.

Mr Chandler Roberts the
"Chemist" of the Mint,
who is however exploring
a different field from
that which I propose
to investigate.

The principal parts
of the apparatus viz:
two telephones, microphone
& battery I already own.

I need in addition a
small wooden stand
which can be made
by the carpenter in a

few hours and four
spools of silk covered
wire which will cost
perhaps \$5 altogether.

I therefore ask your
permission to procure
these things for the
above purpose.

Very Respectfully

A. E. Cutlerbridge Jr.

I consider this an interesting
& promising field of inquiry,
and trust it will receive
encouragement from the Superintendent.

Approved
A. L. S.

W. E. du Bois
Assayer

Rec^d - Oct. 17th 1879.

837 1/2

Assay Department
Oct. 17/79

A. E. Outenbridge Jr
As Recommended
by W. E. DuBois, assayer

Requisition for
1 Wooden stand &
4 Spools silk covered
wire.

Recd Oct 17/79

[Abstract:] Requisition for 1 wooden stand & 4 spools silk covered wire. 837 ½

United States Mint, Philadelphia, Penn.,
Assay Department,
October 17, 1879

Hon. A. Loudon Snowden
Superintendent &c.

Sir,

Some months since Dr. LeConte called my attention to a description in "Nature" of a new "Electrical Induction Balance" devised by Prof. Hughes, the invention of the microphone. Since then more detailed statements have appeared in the scientific periodicals and I am led to believe that it may be possible to apply this principle involved in this discovery to a part of the Mint work with a fair inference of producing useful practical results.

The instruments has already been experimented with in the British Mint and some tentative and promising trials have been published by Mr. W. Chandler Roberts the "Chemist" of the Mint, who is however exploring a different field from that which I propose to investigate.

The principal parts of the apparatus viz: two telephone, microphone battery I already own. I need in addition a small wooden stand which can be made by the carpenter in a few hours and four spools of silk covered wire which will cost perhaps \$5 altogether. I therefore ask your permission to procure these things for the above purpose.

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A.E. Outerbridge Jr.

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W.E. Du Bois
Assayer

[Noted at bottom:]

Approved
A.L.S.